

12

# EUROPEAN PATENT APPLICATION

21 Application number: 89120988.4

51 Int. Cl.<sup>5</sup>: H04M 1/72, H04M 1/274

22 Date of filing: 13.11.89

The title of the invention has been amended  
(Guidelines for Examination in the EPO, A-III,  
7.3).

30 Priority: 26.11.88 GB 8827670

43 Date of publication of application:  
25.07.90 Bulletin 90/30

34 Designated Contracting States:  
AT BE CH DE ES FR GB GR IT LI LU NL SE

71 Applicant: STORNO A/S  
Artillerivej 126  
DK-2300 Copenhagen S(DK)

72 Inventor: Sogaard Rasmussen, Poul Erik  
Klinteholm 5  
DK-2600 Glostrup(DK)

74 Representative: Dunlop, Hugh Christopher et  
al  
Motorola European Intellectual Property  
Operations Jays Close Viabes Industrial  
Estate  
Basingstoke, Hampshire RG22 4PD(GB)

54 Radiotelephone.

57 A radio (2) having: a first memory (34) for storing first information items; memory receiving means (18) for temporarily receiving a second memory (20, 36) for storing second items of information; memory access means (30, 44) for accessing both said first and second memories; and user selective transfer

means (42, 30, 44) for causing an information item from one said memories to be transferred to the other of said memories. In a preferred form the radio is a radiotelephone, the first and second items of information are telephone numbers and the second memory is a magnetic card or a smart card.

EP 0 378 775 A2

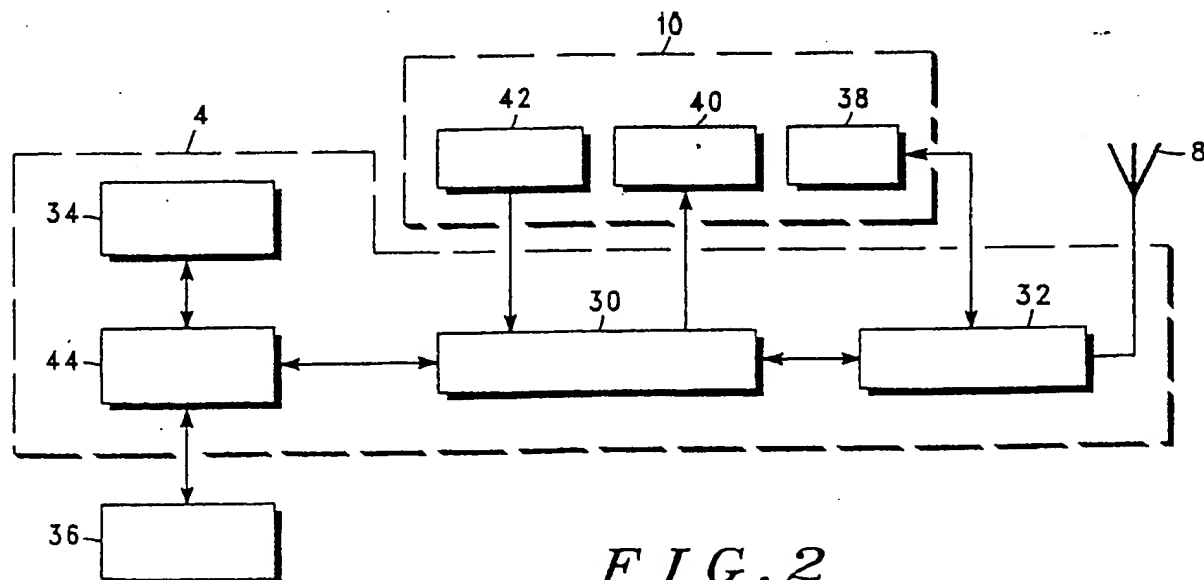


FIG. 2

Associated with each memory location is storage capacity for alphabetic information relating to the telephone number stored therein. Thus the name can be stored of the person whose number is stored. The data in the memory locations 00-39 of the memory card is only accessible by individual selection of the corresponding short number, 00-39. The facility is provided to transfer all stored numbers and associated alphabetic information from the memory card to the system unit and the facility is provided to search, scan and recall the data alphabetically. In this manner all the memory locations 00-99 can be searched.

It will be readily appreciated that this transfer facility enhances the usability of abbreviated dialling with the radiotelephone by obviating the need for numbers to be re-keyed in order to be stored, and so removing the risk of mis-keying. Instead numbers may be transferred or "swapped" with ease.

Referring now also to Figure 2, in block schematic form the radiotelephone 2 comprises in the system unit 4 a microprocessor 30, a radio transceiver 32 and a first set of memory locations 34. A removable set of second memory locations 36 may be provided (in the form of the memory card 20). An audio section 38, display section 40 and keypad section 42 are provided in the handset 10. Transfer means 44 are also provided in the system unit, under control of the microprocessor 30. In use of the radiotelephone 2, the microprocessor 30 receives inputs from the keypad section 42 and from the first and/or second sets of memory locations and controls the transceiver 32, the display section 40 and the transfer means 44 to operate as described above.

It will be understood that memory card 20 may be in the form of a magnetic card or, preferably, in the form of a "smart" card, whereby for example call charging and other transaction processing may be performed within the card.

It will be appreciated that although in the above example there has been described the facility to transfer stored telephone numbers between first and second memories in a radiotelephone, the invention may be more broadly applied to the transfer of any stored information between first and second memories in any radio.

It will be appreciated that the invention has been described above by way of example only and that modifications to the above example may be made without departing from the inventive principle.

## Claims

1. A radio having:

a first memory for storing first information items; memory receiving means for temporarily receiving a second memory for storing second items of information;

memory access means for accessing both said first and second memories; and

user selective transfer means for causing an information item from one of said memories to be transferred to the other of said memories.

2. A radio according to claim 1 wherein the memory receiving means is arranged to receive the second memory comprising a magnetic card.

3. A radio according to claim 1 wherein the memory receiving means is arranged to receive the second memory comprising a smart card.

4. A radio according to claim 1, 2 or 3 wherein the radio is a radiotelephone.

5. A radiotelephone according to claim 4 wherein the first and second information items are telephone numbers.

6. A radiotelephone according to claim 5, wherein the capacity is provided for the telephone numbers to be accompanied by alphabetic information, and wherein transfer means are provided for causing all telephone numbers and accompanying alphabetic information in the second memory to be transferred to the first memory and means are provided for carrying out searching operations on the basis of the alphabetic information on the information items in the first memory after such a transfer.

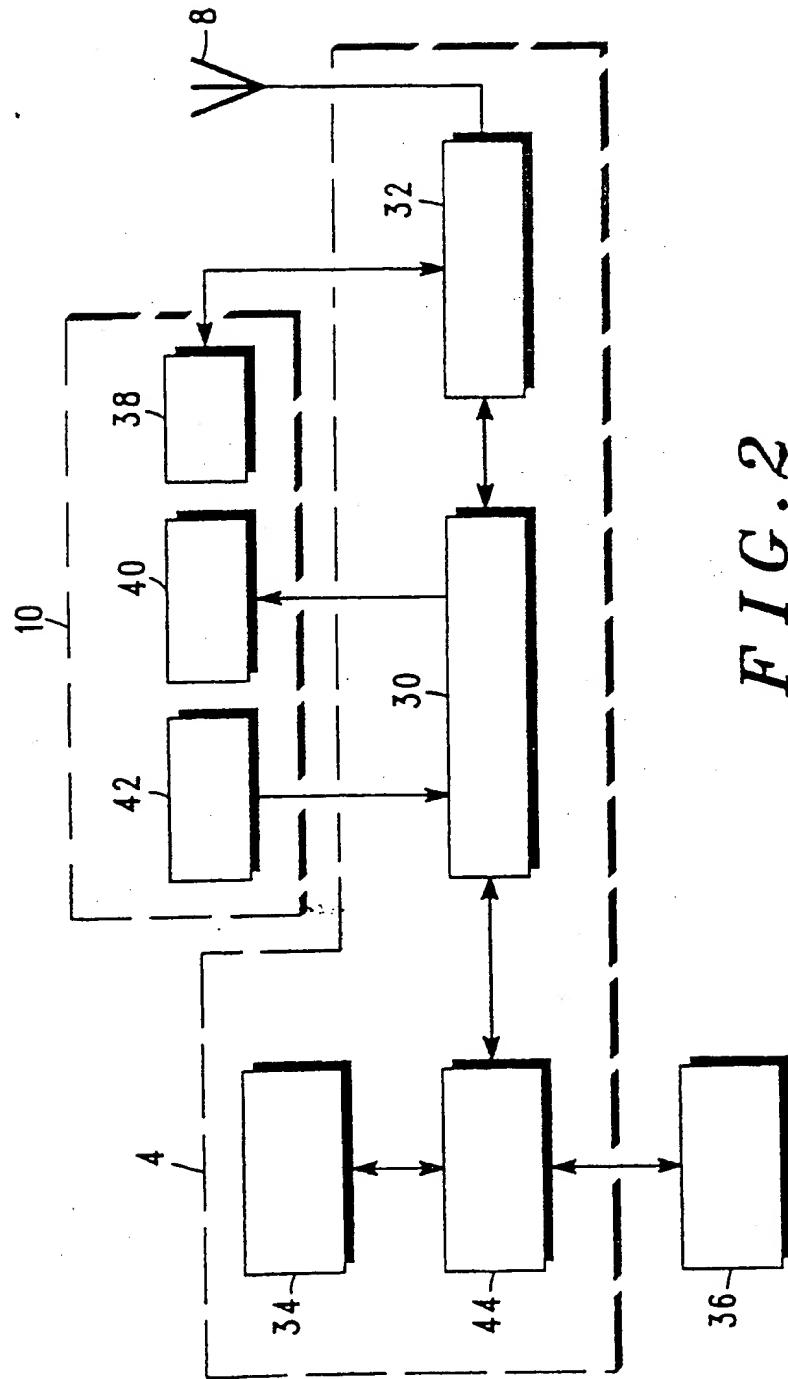


FIG. 2



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



Publication number:

**0 378 775 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 89120988.4

(51) Int. Cl.<sup>5</sup>: H04M 1/72, H04M 1/274

(22) Date of filing: 13.11.89

(30) Priority: 26.11.88 GB 8827670

(43) Date of publication of application:  
25.07.90 Bulletin 90/30

(94) Designated Contracting States:  
AT BE CH DE ES FR GB GR IT LI LU NL SE

(53) Date of deferred publication of the search report:  
23.10.91 Bulletin 91/43

(71) Applicant: STORNO A/S  
Artillerivej 126  
DK-2300 Copenhagen S(DK)

(72) Inventor: Sogaard Rasmussen, Poul Erik  
Klinteholm 5  
DK-2600 Glostrup(DK)

(74) Representative: Dunlop, Hugh Christopher et al  
Motorola European Intellectual Property  
Operations Jays Close Viabes Industrial  
Estate  
Basingstoke, Hampshire RG22 4PD(GB)

(54) Radiotelephone.

(57) A radio (2) having: a first memory (34) for storing first information items; memory receiving means (18) for temporarily receiving a second memory (20, 36) for storing second items of information; memory access means (30, 44) for accessing both said first and second memories; and user selective transfer

means (42, 30, 44) for causing an information item from one said memories to be transferred to the other of said memories. In a preferred form the radio is a radiotelephone, the first and second items of information are telephone numbers and the second memory is a magnetic card or a smart card.

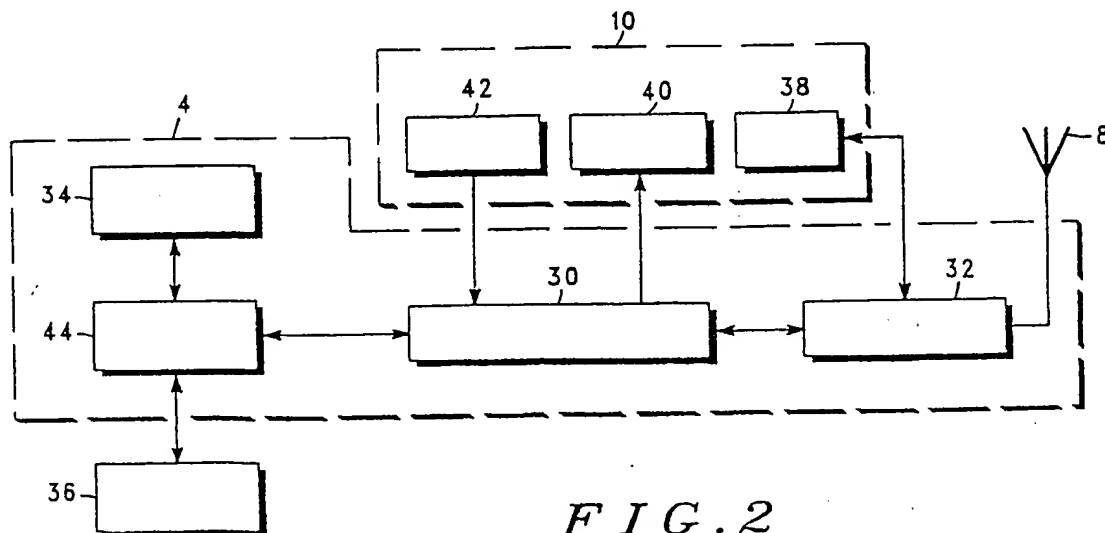


FIG. 2

EP 0 378 775 A3